LubriOne™ PC-000/05T-2S

Polycarbonate

Key Characteristics

Product Description			
LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Lubricated		
Uses	• Appliance Components	• Conveyor Parts	• Printer Parts
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23	ASTM D792
Molding Shrinkage - Flow	6.0E-3 in/in	0.60 %	ASTM D955
Water Absorption			ASTM D570
24 hr, 0.0200 in (0.508 mm)	0.15 %	0.15 %	
Water Absorption			ASTM D570
Saturation, 0.0200 in (0.508 mm)	0.35 %	0.35 %	
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	350000 psi	2410 MPa	ASTM D638
Tensile Strength [2] (Break)	8800 psi	60.7 MPa	ASTM D638
Tensile Elongation [2] (Break)	7.0 %	7.0 %	ASTM D638
Flexural Modulus	330000 psi	2280 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Injection Molded	4.0 ft·lb/in	210 J/m	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	260 °F	127 °C	
CLTE - Flow	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	ASTM D696
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Volume Resistivity	1.0E+17 ohms·cm	1.0E+17 ohms·cm	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	550 to 600 °F	288 to 316 °C

Injection	Typical Value (English)	Typical Value (SI)
Mold Temperature	130 to 250 °F	54 to 121 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type I, 0.20 in/min (5.1 mm/min)

Beyond Polymers.

Better Business Solutions. [SM]